MISOMIP EGU Splinter Meeting notes

MISMIP+:
Hilmar Gudmundsson: What is MISMIP+ timeframe?
Steph Cornford: Based on MISOMIP timeframe

Gael Durand: Why not enlarge channel at end to create more of a continental shelf?
Xylar Asay-Davis: Using the MISMIP+ geometry, which we are keeping simple -- could be changed.
Steph: We could move the calving front back into the channel to prevent the ice tongue from forming at all.

ISOMIP+:
Hilmar: What do you want to test?
Xylar: How similar melt rates are between models

Frank: I like that we're doing things step-by-step

Discussion about calving models:

a. move calving front back?
b. Are we testing ability to have shelf retreat?

Hilmar: Are we trying to test existing models or new capabilities?

MISOMIP:
Discussion about whether the test is too ambitious. Final resolution seems to be that people appreciate the goals and find the experiment reasonable.

Nicolas Jourdain: Are the linear T/S linear restoring profile appropriate? Maybe piecewise linear because of different near-surface properties? May affect mixing? Does it affect melt rates/ shelf response?
Xylar: Good idea for a perturbation study, but trying to keep things simple in the base configuration.

Hilmar: Given that participants are, by definition, doing these experiment instead of something else they could be doing, is this the best use of the community's time? Should we be doing model testing instead of science papers?

Time frame?
Xylar: 2 years is the goal (for these idealized experiments), but depends on availability of coupled models within that timeframe. Experimental design to be submitted to GMD by this summer (before IGS).

Xylar: Should there be 1 GMD paper for MISMIP+/ISOMIP+/MISOMIP or 3? Consensus is 1 paper!

Xylar: Should we include results in paper?
Frank: We had Elmer Ice results as part of the experimental design and this didn't seem to skew the results.
Others expressed reservations about having results that might become the unintended "benchmark". No general consensus on this issue.

Call all three MIPs MISOMIP (parts 1 2 and 3) or keep MISMIP+, ISOMIP+ and MISOMIP?
Consensus was for the latter -- 3 clearly distinct experiments with different pedigrees and potentially also distinct participants.